Author Index Volume 59 (1991)

Aimar, P., 81
Akiyama, S., 73
Anzai, H., 73
Asakura, T., 39

Bartan, M., 353
Bobrova, L.P., 117
Bondarenko, A.G., 117

Chen, L.-W., 15, 169
Chern, R.T., 293
Clifton, M.J., 81

Demura, M., 39
Draxler, J., 189

Fu-quan, X., 183

Gavach, C., 265
Goldfeld, M.G., 1
Guiver, M.D., 219

Haruta, K., 73
Howell, J.A., 81
Hubble, J., 277
Hwang, S.-T., 53, 331

Ijiro, K., 101
Inoue, H., 233

Kiparissides, C., 205
Kirichenko, V.I., 117
Kocherginsky, N.M., 1
Kusakabe, K., 73

Lau, W.W.Y., 219
Li, D., 331
Lyapunov, A.Ya., 117

Marc, I., 249
Marr, R., 189
Matsuura, T., 133, 151, 219
McCray, S.B., 305, 317
Mercea, P.-V., 353
Mikos, A.G., 205
Morooka, S., 73

Nguyen, Q.T., 249
Ninow, J.L., 249
Nobe, K., 305, 317

Okada, T., 133, 151
Okahata, Y., 101
Okubo, T., 73
Osak, I.S., 1

Popkov, Yu.M., 117
Provan, C.N., 293

Qiu, M.M., 53

Sanchez, V., 81
Sandeaux, R., 265
Sandeaux, J., 265
Sanders, N., 277
Shahi, V.K., 27
Shifrina, R.R., 117
Singh, K., 27

Timashev, S.F., 117

Ulbrich, M., 189

Vilker, V.L., 305, 317
Volkov, V.I., 117
Vorobiev, A.V., 117

Xuan-cai, D., 183

Yamasaki, A., 233
Yoshikawa, M., 133
Young, T.-H., 15, 169

Author Index Volume 59 (1991)

Aimar, P., 81
Akiyama, S., 73
Anzai, H., 73
Asakura, T., 39

Bartan, M., 353
Bobrova, L.P., 117
Bondarenko, A.G., 117

Chen, L.-W., 15, 169
Chern, R.T., 293
Clifton, M.J., 81

Demura, M., 39
Draxler, J., 189

Fu-quan, X., 183

Gavach, C., 265
Goldfeld, M.G., 1
Guiver, M.D., 219

Haruta, K., 73
Howell, J.A., 81
Hubble, J., 277
Hwang, S.-T., 53, 331

Ijiro, K., 101
Inoue, H., 233

Kiparissides, C., 205
Kirichenko, V.I., 117
Kocherginsky, N.M., 1
Kusakabe, K., 73

Lau, W.W.Y., 219
Li, D., 331
Lyapunov, A.Ya., 117

Marc, I., 249
Marr, R., 189
Matsuura, T., 133, 151, 219
McCray, S.B., 305, 317
Mercea, P.-V., 353
Mikos, A.G., 205
Morooka, S., 73

Nguyen, Q.T., 249
Ninow, J.L., 249
Nobe, K., 305, 317

Okada, T., 133, 151
Okahata, Y., 101
Okubo, T., 73
Osak, I.S., 1

Popkov, Yu.M., 117
Provan, C.N., 293

Qiu, M.M., 53

Sanchez, V., 81
Sandeaux, R., 265
Sandeaux, J., 265
Sanders, N., 277
Shahi, V.K., 27
Shifrina, R.R., 117
Singh, K., 27

Timashev, S.F., 117

Ulbrich, M., 189

Vilker, V.L., 305, 317
Volkov, V.I., 117
Vorobiev, A.V., 117

Xuan-cai, D., 183

Yamasaki, A., 233
Yoshikawa, M., 133
Young, T.-H., 15, 169

Subject Index Volume 59 (1991)

acetate ion transport, 265
alcohol fermentation, 249
alumina membrane, 73
ammonia, transport of, 117
aqueous liquid membranes, 189

biomembrane analog, 1
biomimetic membrane, 1
biotechnology, 249
Bombyx mori, 39

capsule membranes, lipase immobilized, 101
cellulose acetate membranes, 305, 317
cellulose membranes, 133
ceramic membrane, 73
chloride ion transport, 265
composite membranes, 353
concentration polarization, 81, 265, 277
constant flux ultrafiltration, 277
continuous porous membrane permeator, 53
copolymer membrane, 15

diffusion, 169, 293

electrochemistry, 265
electron transfer, 1
electroosmosis, 27
emulsion liquid membranes, 183, 189
emulsion breakup, 189
ester synthesis, 101
ester hydrolysis, 101
ethylene-vinyl alcohol copolymer membrane, 15

facilitated transport, 189
fiber membrane, 73
filtration technique, 73
flux ratio, 169
fouling, 81

gas and vapor permeation, 133, 151, 293
gas permeation, 353
gas separations, 117, 233, 293, 353
glass membranes, 233
glucose oxidase, 39

hollow fiber membrane, 81, 117
hydrolysis, 305, 317

inorganic membrane, 73
ion exchange membranes, 265

lipid membrane, 27
liquid membrane, 1, 27, 189
liquid permeability, 27
liquid surfactant membranes, 183
liquid permeability and separations, 183
local composition variation, 169

membrane characterization, 39
membrane formation mechanism, 15
membrane preparation, 219
membrane preparation and structure, 15, 169, 205, 331
membrane reactor, 101
membrane sensors, 249
methyl methacrylate polymerization, 205
micelles, 189
microporous and porous membrane, 27, 133, 151, 233, 249
model studies, 277

NMR, spin lattice relaxation time, 39

perfluorosulfonic acid polymer, 117
pervaporation, 133, 151
pollution control, 53
poly(bisphenol A phthalate), halogenation of, 293
poly(phenolphthalein terephthalate), halogenation of, 293
polyethersulfone membrane, 219
polymer precipitation curves, 219
polymerization-pyrolysis, 331
polysulfone membrane, 81, 219
pore flow model, 151
porous membranes, 39, 53
proteins, ultrafiltration of, 81

reverse osmosis, 151, 305, 317

sensors, 249
separation of ethyl alcohol/heptane, 133
separation of ethanol–nitrogen mixtures, 53
separation of ethanol/water mixtures, 151

separation of acetone-nitrogen mixtures, 53
silicium oxide, deposition of, 353
silicon based inorganic membrane, 331
silicone membranes, 151
silk fibroin (membrane), 39
skin formation, 205
sol-gel derived membrane, 73
structure-property relations, 293
surface diffusion, 233
swelling, 183

theory, 15, 53, 133, 151, 331
transport properties, 317

ultrafiltration, 81, 133, 277

vapor-gas permeation, 53
volatile organics, detection of, 249
Vycor porous glass membrane, 53

wet-casting membrane formation, 169